

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re application of:

Steven Michael Schein

Serial No: N/A

Filed: June 28, 2000

For: INTELLIGENT MEDIA TARGETING SYSTEM AND
METHODjc511 U.S. PTO
09/605695
06/28/00

Box PATENT APPLICATION

Assistant Commissioner for Patents

Washington, D.C. 20231

Dear Sir:

Transmitted herewith for filing is the patent application identified above.

- ☒ 3 sheet(s) of drawings (☐ formal ☒ informal) is(are) enclosed.
- ☒ 23 application page(s) including specification, claims, and abstract of the invention are enclosed.
- ☒ An assignment of the invention to Intertainer, Inc ☒ and Recordation Form are enclosed ☐ will follow.
- ☐ An associate power of attorney ☐ is enclosed ☐ will follow.
- ☐ A verified statement to establish small entity status under 37 C.F.R. §§ 1.9 & 1.27 is enclosed.
- ☒ Declaration and Power of Attorney ☒ is enclosed ☐ will follow.
- ☐ A certified copy of Patent Application No. filed from which priority is claimed under 35 U.S.C. § 119 is enclosed.
- ☒ IDS enclosed (☒ with references).
- ☐ Preliminary Amendment is enclosed.

CALCULATION OF FEES

ITEM		TOTAL NO. OF CLAIMS		NO. OF CLAIMS OVER BASE	LG/SM \$ ENTITY FEE		\$ AMOUNT	\$ FEE
A	TOTAL CLAIMS FEE	37	-20	17	LG=\$18 SM=\$9	\$18	\$ 306	
B	INDEPENDENT CLAIMS FEE*	8	-3	5	LG=\$78 SM=\$39	\$78	\$ 390	
C	SUBTOTAL - ADDITIONAL CLAIMS FEE (ADD FINAL COLUMN IN LINES A + B)							\$ 696
D	MULTIPLE-DEPENDENT CLAIMS FEE					LARGE ENTITY FEE = \$260 SMALL ENTITY FEE = \$130		\$ 0
E*	BASIC FEE					LARGE ENTITY FEE = \$690 SMALL ENTITY FEE = \$345		\$ 690
F	TOTAL FILING FEE (ADD TOTALS FOR LINES C, D, AND E)							\$ 1,386
G	ASSIGNMENT RECORDING FEE						\$ 40	\$ 0
	*LIST INDEPENDENT CLAIMS [LIST OF INDEPENDENT CLAIMS]							

- ☒ A check in the amount of \$ 1,386 to cover the filing fee and extra claims fees is enclosed.
- ☒ A check in the amount of \$ 40 to cover Assignment Recordation fee is enclosed.

- Respectfully submitted,
MARTIN & FERRARO, LLP

By:

[illegible]

06/28/00



Jc845 U.S. PTO

06-29-00

A

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Attorney Docket No: 108.0003-00000
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Steven Michael Schein

Serial No: N/A

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For: INTELLIGENT MEDIA TARGETING
SYSTEM AND METHOD

Art Unit: N/A

Examiner: N/A

Jc511 U.S. PTO
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I hereby certify that

- ☒ Two copies of a letter of transmittal
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- ☒ Patent application (23 page(s) including specification, claims, and abstract)
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UNITED STATES PATENT APPLICATION

BY

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FOR AN

INTELLIGENT MEDIA TARGETING SYSTEM AND METHOD

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BACKGROUND OF THE INVENTION

Field of the Invention

The invention relates to targeting media content to users, and in particular, to a system and method for automatically targeting intelligent media content to users based on user activity information associated with such content.

Description of the Related Art

Traditional media targeting concerns operate to direct content to consumers by matching information about a consumer with information about particular content based on user inputs. In this context, the content generally includes advertisements, e-commerce promotions, and other information content deliverable through communication channels and ultimately consumed or exercised (e.g., purchased, viewed, interacted with) by users. For example, an Internet user surfing the World Wide Web for discount airplane fares to Hawaii may receive unsolicited advertisements about Hawaiian hotels. In this instance, the user is targeted to receive distinct content based on the user's searching inquiries.

Many media targeting methods focus on generating user profiles (i.e., demographic, psychographic, and/or other information associated with individual users or groups of users). In this regard, U.S. Patent Nos. 5,790,426 and 5,918,014 to Robinson describe methods for determining a subject's community (i.e., people with similar likes and dislikes) and displaying advertisements to a subject based on characteristics of the subject's community. U.S. Patent No. 5,848,396 to Gerace describes a method of generating psychographic profiles of end users by recording their computer activities and viewing habits, and targeting advertisements based on the user profiles. U.S. Patent No. 5,636,346 to Saxe describes an advertisement targeting system that relates carrier subscriber data to other proprietary marketing

databases by creating, compiling and updating a national directory of information derived from actual cable systems and telephone company billing records. Such user profiles are stored as a user database by a provider or carrier, or at the user end, and are used to target contents to the users.

5 Despite advances in the prior art, there still exists a need for more effective media targeting that is not reliant on a user profile or demographics.

SUMMARY OF THE INVENTION

10 The present invention is directed to a system and method for preparing media objects for optimal targeting to their eventual users. The present invention provides a system and method for generating media object profiles associated with individual media objects, and using such media object profiles to target the media objects to users. One aspect of the present invention is a method of capturing user activity information representing the exercise of each media object by users, and filtering the captured user activity information to generate a profile associated with each media object. A media object profile is a profile of an individual media object, in a similar sense that a user profile is a profile of an individual user.

15 Another aspect of the present invention is a method of making “smart media objects” by generating a coded header attached to each media object representing a profile for that media object.

20 Yet another aspect of the present invention is a method for utilizing smart media objects having coded headers to target the media objects to users, by detaching and decoding the coded headers to obtain the media object profile and making targeting decisions based on the profile. Still another aspect of the invention is a smart media object, i.e., an information object having a content portion
25 containing information to be used by end users and a profile portion containing

coded profile information representing the exercise of the media object by users, where the content portion and the profile portion are assembled into an information object capable of being transmitted integrally.

In a preferred embodiment, the invention provides a system for targeting media content to at least one user. The system includes a data reporter for collecting user activity information representing the exercise of a first media object or profile by the one or more users, a coding system for correlating information gathered by the data reporter with the one or more first media objects, and a mediator for responding to a user interaction and providing to the user at least a second media object based upon the information correlated with at least the first media object or profile.

It is to be understood that both the foregoing general description and the following detailed description are exemplary and explanatory and are intended to provide further explanation of the invention as claimed.

The accompanying drawings, which are incorporated in and constitute a part of this specification, illustrate several embodiments of the invention and together with the description, serve to explain the principles of the invention.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 schematically illustrates an intelligent media targeting system including a user activity data reporting portion in accordance with the present invention.

Figure 2 schematically illustrates an intelligent media targeting system for generating and utilizing smart media objects in accordance with the present invention.

Figure 3 schematically illustrates a method of targeting media objects by utilizing smart media objects in accordance with the present invention.

DETAILED DESCRIPTION OF THE DRAWINGS

Reference will now be made to preferred embodiments of the invention, examples of which are illustrated in the accompanying drawings. Wherever possible, the same reference numbers will be used throughout the drawings to refer to the same or like parts.

FIGS. 1 and 2 show an intelligent media targeting system (IMTS) and data flow within the system according to preferred embodiments of the present invention.

Media contents or objects available within the system are stored in a raw media content file or database 10, while a profile database or warehouse 12 stores user activity and other information associated with the media contents. The media content may take the form of, for example, an audio-visual recording, sound recording, advertisement, Internet links, e-commerce asset (such as a JPEG image of a T-shirt for sale over a media system), or other digital content that may or may not be enhanced with targeting information. User activity information may include information indicating that a piece of media is exercised (e.g., purchases, viewed, interacted with) by a user, and is captured when the user exercises the media. The user activity information is derived at least partly from automatically captured user activity information. A coding system 14 filters the user activity information and the other information in the profile database to generate a coded header for each media object. Coding system 14 is preferably a software program or set of software systems for adding intelligent headers to media objects. A coded header is preferably an encoded descriptor (i.e., data) associated with a specific media object that includes targeting information unique to a media object. The filtering process

may include, for example, analyzing the various "types" of information that exist, giving each type an appropriate priority weight and aggregating the sum into a unified code. The types of information include not only user behavior or activity associated with a media asset, but also historical information about similar assets that had previously existed in the archive or from another source. The resulting coded header has enough information where it can be later broken back into its components for optimum targeting. The coded header is then attached to the media object by the coding system to produce a "smart media object" 16 which is then stored in content repository or archive 18. Content repository 18 is preferably a central storage device for archiving the media objects.

In a preferred embodiment, smart media object 16 includes a media object portion, and a media object profile. More preferably, smart media object 16 is a media object that is associated with a coded header representing a profile of that media object, the profile being derived at least partially from captured user activity information and other information associated with the media object. A media object portion is the portion of the smart media object relating to the content (for example, a movie), as opposed to the header or profile portion of the smart media object. A media object profile includes the description term(s) for the characteristic of the data associated with the media object. The media object profile may preferably contain raw information such as information associated with the media object, as well as calculated or statistical information for use by other components of the system. Raw media content file or database 10, profile database 12, coding system 14, and content repository 18 are preferably located at a central location such as a back office 20 for example. Here, the term location is not limited to physical locations, and may mean servers and the like.

The information coded in the headers of smart media objects 16 is utilized by mediator 22, which may be a computer program, and may be located in a central office and/or local offices, to make targeting decisions to target the media objects to users. The mediator is preferably a software program or system capable of comparing two or more sets of independent data and performing specific logical tasks based on such a comparison. The mediator 22 detaches the header from smart media object 16 and decodes the header to obtain the media object profile. The media object profile contains enough information for optimal targeting by mediator 22. Targeting decisions may be based on, for example, the kind of products the user buys, the kind of television shows the user watches, or the user's actor preferences. The information contained in the media object profile may then be matched with user profiles stored in an optional user profile database 24 connected to the mediator 22. The user profiles, which represent demographic, psychographic and other information associated with individual users, may be generated by a user profiling system 26 generally known in the art. According to the targeting decisions made by the mediator 22, media objects are ultimately delivered to end users 28 through any one of a number of delivery systems, such as for example, media server 30a, commerce system 30b, or advertising system 30c.

The intelligent media targeting system also includes a user activity information capture and reporting system that reports information related to user activities (user activity information) back to the central location. Although the preferred embodiment uses a centralized location, it should be understood that such use is only preferred. For example, the invention may also make use of regional locations rather than a centralized location. Each media server 30a, commerce system 30b, advertising system 30c, in the local offices contains a user activity capture section 32a-c, respectively, that captures user activity information in real

time. The captured user activity information may be sent back to a data reporter
34located in the central office in real-time, such as by transmitting a code to the
reporter when a media object is exercised by a user, and stored in administrative
server 35 or profile or data warehouse 12. Data reporter 34 preferably is a
5 repository of all user-related information that processes the data in a form that is
useful to the overall data warehouse of information. It is also preferably a software
implemented feedback mechanism for logging activity in a central location typically
implemented through software. The data reporting can be done in real time, as
assets are used, or in a store-and-forward method. In a real time example using
10 cable television, one or more users watch an interactive show about the history of
rock and roll. Each user, through his or her activity spends a great deal of time in a
particular female rock artist section and as a result of several users doing the same
thing, the history of rock and roll media asset now includes some targeting
information that statistically values the particular female rock artist-related
15 opportunities as high.

Alternatively, the captured user activity information may be stored in local
profile caches 36a-c connected to the media server 30a, commerce system 30b, or
advertising system 30c in filtered or unfiltered form, and forwarded to data reporter
34 at a later time. The user activity capture sections 32a-c may be a part of a user
20 profiling system already incorporated in many media delivery systems.

In another embodiment, the IMTS may create smart media objects based
solely on content usage. For example, a media object profile may be built having
only certain statistical or affinity information. One such statistic could be, for
example, the number of times a movie was ordered when an advertisement for it
25 accompanied another movie.

Another example could involve web pages. When a web page use is detected or a request for a particular page made, links to other web pages or advertisements may be sent by the IMTS mediator with the requested page based on statistics, data or object profiles showing a high volume of requests made for a subsequent media object whenever it accompanies the first requested object. In essence, the headers accompanying the media object have a profile based only on content usage rather than the characteristics of any particular users. The IMTS mediator then chooses and directs the smart media objects based on continually or periodically updated object profiles. This embodiment may be made to be adaptable for use with those systems having personal user profile systems.

Fig. 3 illustrates a media targeting method according to a preferred embodiment of the present invention. The method includes the following steps: (a) capturing user activity information (historical information), e.g., information regarding exercise of media objects by users; (b) filtering the user activity information to generate a media object profile; (c) generating a coded header from the filtered user activity information and other pertinent information; (d) attaching the coded header to the media object to generate a smart media object; (e) transmitting the smart media object over a communication channel; (f) detaching and decoding the header from a received smart media object to obtain the media object profile information; and (g) making media targeting decisions utilizing the media object profile information.

The captured user activity information may be, for example, the event of viewing of a media object A by a user B. Such raw information is filtered to generate filtered user activity information or statistical information, for example, values representing the total number of viewings or total viewing time of the media object A by a demographic group C. The filtered user activity information may be updated as new user activity information is captured and reported, such as when a user

belonging to the demographic group C views the media object A. In addition to information of user exercise of the particular media object, other information may also be included in a media object profile, such as data manually assigned to the media contents, e.g., genre; demographic information and behavior patterns of the users who have used that media object; cross-correlation between different particular media object and other media objects. For example, a profile for programming content may specify that this content has been viewed by people who have a particular demographic profile; purchase a particular type of product; or watch other programs that have an affinity relationship with the viewed piece of content. In this situation, user profile information from existing user profile databases may be incorporated into the media object profile.

The media targeting step is accomplished by matching the data fields included in the media object profile to a list of data fields associated with a user list, such as a list of subscribers of a particular service from a subscriber management system. For example, a service provider could target all the programming titles that have been primarily viewed by a particular demographic group to members of that demographic group. In another example, if the user profiling system keeps track of the programs viewed or purchased by a user, this information may be matched with available e-commerce opportunities to target e-commerce products directly to the user. In the latter example, the profile of a media object may be used to target other media objects than the one carrying the profile. This would allow a localized advertising system to target users who viewed a particular program with specific advertisements.

The filtering method used to generate media object profiles from user activity and other information typically implements profiling models and assumptions based on, for example, statistical, psychological, or business considerations; the

assumption being that users having similar demography may have similar preferences. Similarly, the media targeting decisions typically implement targeting models and assumptions based on, for example, statistical, psychological, or business considerations. Any such profiling and targeting models and assumptions may be implemented in the present invention. Although the previous example involved the use of demographic user information or individual user characteristics, the present invention may work without such information.

When generating the coded header from the filtered user activity information, any suitable coding system may be used. In addition, the header may be attached to the media object in any suitable way, depending on the nature of the media object. For example, the coded header is preferably digital for digital contents, and analog for analog contents. The smart media objects may be transmitted from the central office to the local offices using any suitable broadcasting or communication channel. Further, any detaching and decoding system compatible with the coding and attaching system may be used to retrieve the profile information from the header.

The various steps described above need not be performed as separate steps. For example, filtering the user activity information and generating the coded header may be performed in one step, and generating and attaching the header to the media object may be performed in one step. Moreover, a variety of data processing and flow patterns may be employed, although some patterns may be more efficient than others. The processing steps may be performed at different locations within the system, and the data may flow between the locations in different forms as processed, partially processed or unprocessed data. For example, the user activity information that is captured in real time (as the user activity occurs) may be transmitted to the back office in the form of raw data. Alternatively, it may be stored

in local caches and/or filtered (processed) by local servers to generate filtered data representing statistical information. The filtered data may then be transmitted at a later time to the back office, where information received from multiple local offices may be further filtered. As another example, the media object profile information may be stored in various forms. In one embodiment, the filtered user activity information is stored in a database at the back office and continuously updated. If the data reporting is updated in real time, the coded headers of the media objects become dynamic and real time accurate or near real time accurate as well. For example, the coded headers can be generated and attached to media objects in real time, i.e., when a media object is to be delivered to a local server or an end user. Alternatively, the coded headers may be generated and stored in a database at the back office, and continuously updated. The stored headers may be attached to media objects in real time. As another alternative, the coded headers may be generated and attached to the media objects, creating smart media objects which may be stored in content repository 18 (Fig. 2) at the back office. The smart media objects could then be updated in real time, or periodically updated.

In another embodiment, the present invention may also be used as a hidden search engine for Internet use. That is, one or more web links may be provided with a user requested web page, existing outside the confines of the web page itself.

Such an embodiment would allow the invention to be used with traditionally non-commercial sites, for example, a movie fan club site. In such an example, IMTS would collect information from a plurality of users of a medium. A coding system would correlate the collected information with an archive of Internet links to create a profile for each link. Each link profile could contain, for example, information based on link usage with other links. As an illustration, a link profile of a link to a specific movie fan club may contain information about the number of times that link was

exercised with in combination with a link to the “official” movie site, or in combination with a link to another site highlighting a particular movie star.

As the universe of Internet links is vast, the coding system may perform statistical calculations to archive a portion of all known Internet links, for example, the 10% most popular links.

When IMTS receives a request for a particular link, or user requested link, the mediator obtains the user requested link and selects at least one link having a profile matching one or more aspects or characteristics of the profile of the requested link. The mediator then delivers the user requested link together with the selected links.

In the movie illustration above, a user may request a particular movie link. The mediator would retrieve the requested link and provide the user with other links with the requested link. The user could then view the web page requested and be provided with hypertext links just outside the viewing frame of the web page leading to sites most visited by users who request the movie site. The movie site need not itself even have links to commercial sites. IMTS could provide targeted advertising to viewers of non-commercial sites, or sites that themselves have no link to the particular link provided by IMTS with the user requested link. For example, the movie site may not have links to a site advertising souvenirs, or no links to outside sites at all. IMTS would include such links even though the websites themselves have no link to the particular site, for example, the souvenir site.

In summary, by generating a profile for each media object from user activity user activity information and other information, the intelligent media targeting system according to the present invention enables effective targeting of media objects to end users. By attaching the media object profile to the media object as a header, transmitting media objects carrying their own profile (smart media objects), and subsequently detaching and decoding the header to retrieve the media object profile,

the system allows the media object profiles to be generated at a central location, and utilized by local offices in a distributed manner. Such a system enables programming and service options to be uniquely made available to a user or a group of users to increase the personalization of the service and ultimately enhance the user's experience, and enables advertising and e-commerce opportunities to be optimized for revenue potential. Furthermore, the personalization of service may be accomplished without using individual user characteristics such as age, gender, or location.

It will be apparent to those skilled in the art that various modifications and variations can be made in the media targeting system of the present invention without departing from the spirit or scope of the inventions. Thus, it is intended that the present invention cover modifications and variations of this invention that come within the scope of the appended claims and their equivalents.

WHAT IS CLAIMED IS:

1. A system for targeting media content to at least one user, comprising:
 - a data reporter for collecting user activity information representing exercise of a first media object by said at least one user;
 - a coding system for correlating information gathered by said data reporter with at least said first media object; and
 - a mediator for providing to the user at least a second media object based upon the information correlated with at least said first media object.
2. The targeting system of claim 1, wherein said coding system creates at least one smart media object, each of said smart media objects having a media object portion and a media object profile.
3. The targeting system of claim 2, further comprising a content repository for storing said at least one smart media object until said mediator requests said at least one smart media object.
4. The targeting system of claim 2, wherein each of said media object profiles contains information pertaining to a related one of said media object portions calculated from user activity information.
5. The targeting system of claim 1, wherein said data reporter collects information

relating only to content usage.

6. The targeting system of claim 1, wherein said coding system correlates the information in real time.

7. The targeting system of claim 1, wherein said coding system periodically updates the information correlated with said at least one media object.

8. The targeting system of claim 1, wherein said second media object comprises at least one of the following: an audio-visual recording, a sound recording, an Internet link, an advertisement, and an e-commerce asset.

9. A system for targeting media to a user, comprising:

a data reporter for gathering content use information representing exercise of a media object by at least one user;

a media object archive for storing media objects;

a coding system for assigning information from said data reporter to at least one media object to create a profile for each of said media objects; and

a mediator for selecting at least one media object having a media object profile matching at least one characteristic of said profile of said user requested media object.

10. The targeting system of claim 9, wherein said coding system creates at least

one smart media object, each of said smart media objects having a media object portion and a media object profile.

11. The targeting system of claim 10, further comprising a content repository for storing said at least one smart media object until said mediator requests said at least one smart media object.

12. The targeting system of claim 10, wherein each of said media object profiles contains information pertaining to a related one of said media objects calculated from the user activity information.

13. The targeting system of claim 9, wherein said data reporter collects information relating only to content usage.

14. The targeting system of claim 9, wherein said coding system correlates the information in real time.

15. The targeting system of claim 9, wherein said coding system periodically updates the information correlated with said at least one media object.

16. The targeting system of claim 9, wherein said media object comprises at least one of the following: an audio-visual recording, a sound recording, an Internet link, an advertisement, and an e-commerce asset.

17. A method for targeting at least one media object to a user, comprising the steps of:

gathering information representing exercise of a media object by at least one user;

5 assigning the information to at least one media object, each media object having a content portion and a header so that a media object profile is created for each media object;

matching at least one characteristic of the profile of a user requested media object with the profile of at least one media object; and

delivering said user requested media object with said at least one media object having an object profile matching at least one characteristic of the profile of the requested media object.

18. The method of claim 17, wherein said information gathering step gathers only content usage information.

19. The method of claim 17, wherein said assigning step is performed in real time.

20. The method of claim 17, wherein said assigning step is performed periodically.

21. The method of claim 17, wherein said media object comprises at least one of the

following: an audio-visual recording, a sound recording, an Internet link, or an advertisement.

22. A smart media object, comprising:

a media object portion having information accessible to a user; and

a media object profile portion containing information gathered from a plurality of users representing exercise of said media object by said plurality of users.

5

23. The smart media object of claim 22, wherein said media object profile portion contains only content usage information gathered from said plurality of users.

24. The smart media object of claim 22, wherein said media object comprises at least one of the following: an audio-visual recording, a sound recording, an Internet link, an advertisement, and an e-commerce asset.

25. A method for utilizing a smart media object having attached thereto a coded header containing a profile of a media object, the method comprising:

detaching and decoding said coded header to obtain said profile, said profile containing user activity information representing exercise of said media object by users; and

5

targeting other media based on said profile.

26. The method of claim 25, wherein said targeting step includes the sub-step of

comparing information contained in said profile with information contained in a profile of a user requested media object.

27. A method for targeting media objects to a user, comprising the steps of:

collecting information from a plurality of users related to the viewing of at least one media object;

correlating the information collected with at least one media object obtained from a media object archive;

creating a media object profile for each media object based on the correlated information;

combining said media object profile with said media object to create a smart media object; and

selecting smart media objects having media object profiles matching at least one characteristic of said media object profile of the user requested media object and delivering the user requested media object with said selected smart media objects.

28. The method of claim 27, wherein said collecting step includes collecting only content use information.

29. A method of targeting media objects to a user on-line, comprising the steps of:

collecting information from users of Internet links;

correlating the collected information with at least one Internet link;

creating an Internet link profile based on the correlated information; and

5 selecting at least one Internet link based on the profile of a user requested link and delivering to the user the requested link and at least one additional link having a link profile matching at least one aspect of the profile of the requested link.

10 30. The method of claim 29, wherein at least one of said Internet links leads to a web site.

31. The method of claim 29, wherein at least one of said Internet links leads to a non-commercial web page.

32. A hidden search engine, comprising:

a data reporter for collecting information from a plurality of users;

a coding system for correlating the collected information with at least one Internet link and creating a profile for each said link; and

5 a mediator for selecting at least one link based on at least one aspect of each link profile for delivery with a user requested link to the user.

33. The hidden search engine of claim 32, wherein said mediator delivers said at least one selected link with a link to a web site which does not have at least one of the selected links coded within said web site.

34. The hidden search engine of claim 33, wherein said at least one selected link

appears outside a frame containing the web page when viewed.

35. The hidden search engine of claim 32, wherein at least one of said selected links resides outside of the coding of the requested web page, but is still viewable to the user.

36. The hidden search engine of claim 32, wherein said data reporter collects only content usage information.

37. The hidden search engine of claim 32, wherein said data reporter collects only link usage information.

ABSTRACT OF THE DISCLOSURE

An intelligent media targeting system and method for generating and utilizing smart media objects, or information objects containing both a content portion containing information to be consumed by end users and a profile portion containing coded user activity information representing exercise of the media object by users, the content portion and the profile portion being assembled into an information object capable of being transmitted integrally. The smart media objects are generated by capturing user activity information representing exercise of media objects by users, filtering the captured user activity information to generate a profile for each media object, generating a coded header using the profile for each media object and attaching the coded header to the media object. After the smart media objects are transmitted over a communication channel, the coded headers are detached and decoded to obtain the profile of the smart media objects. Media targeting decisions are then made to target media objects to end users based on the media object profile obtained by detaching and decoding the coded header.

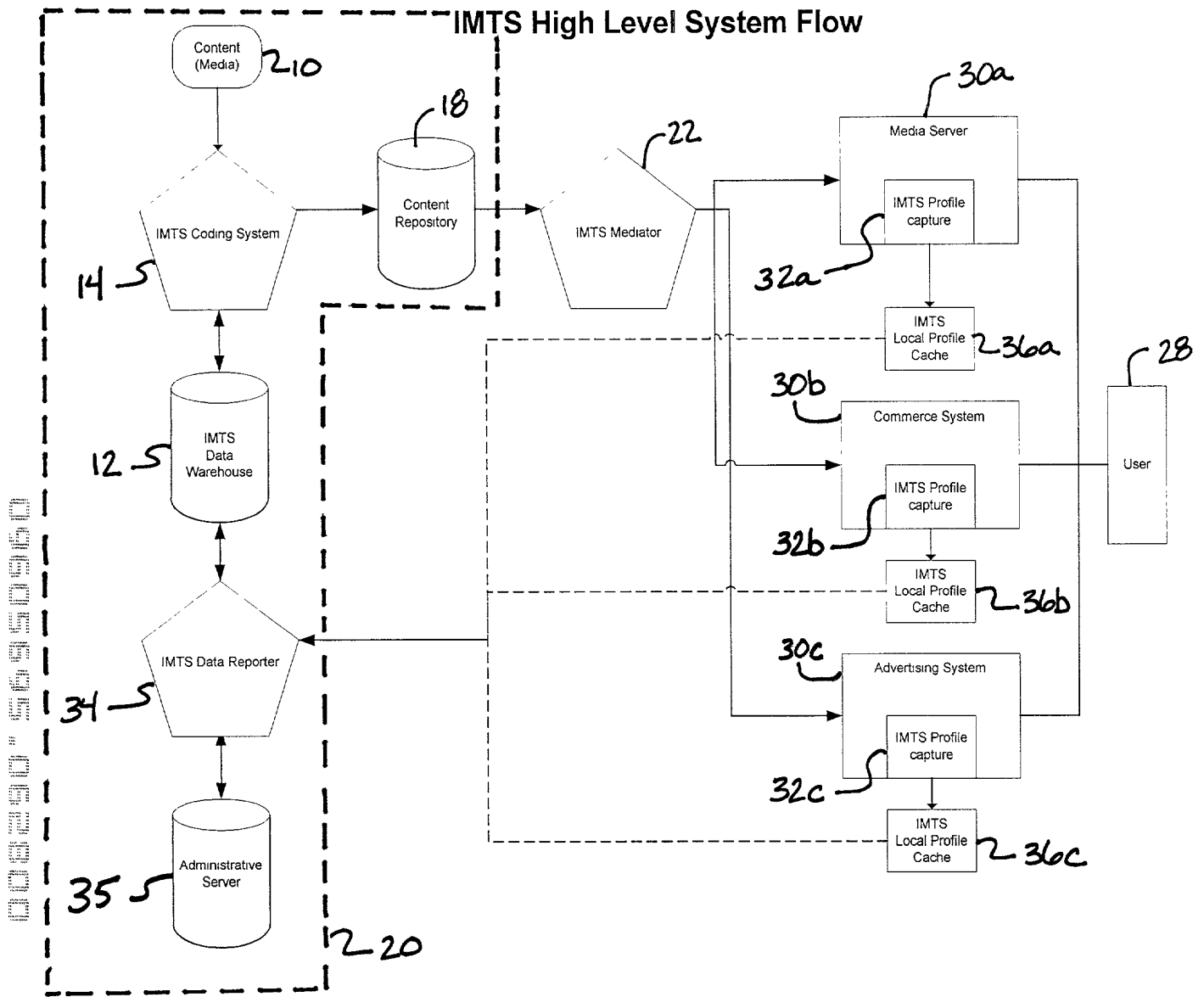


FIGURE 1

IMTS Data Flow

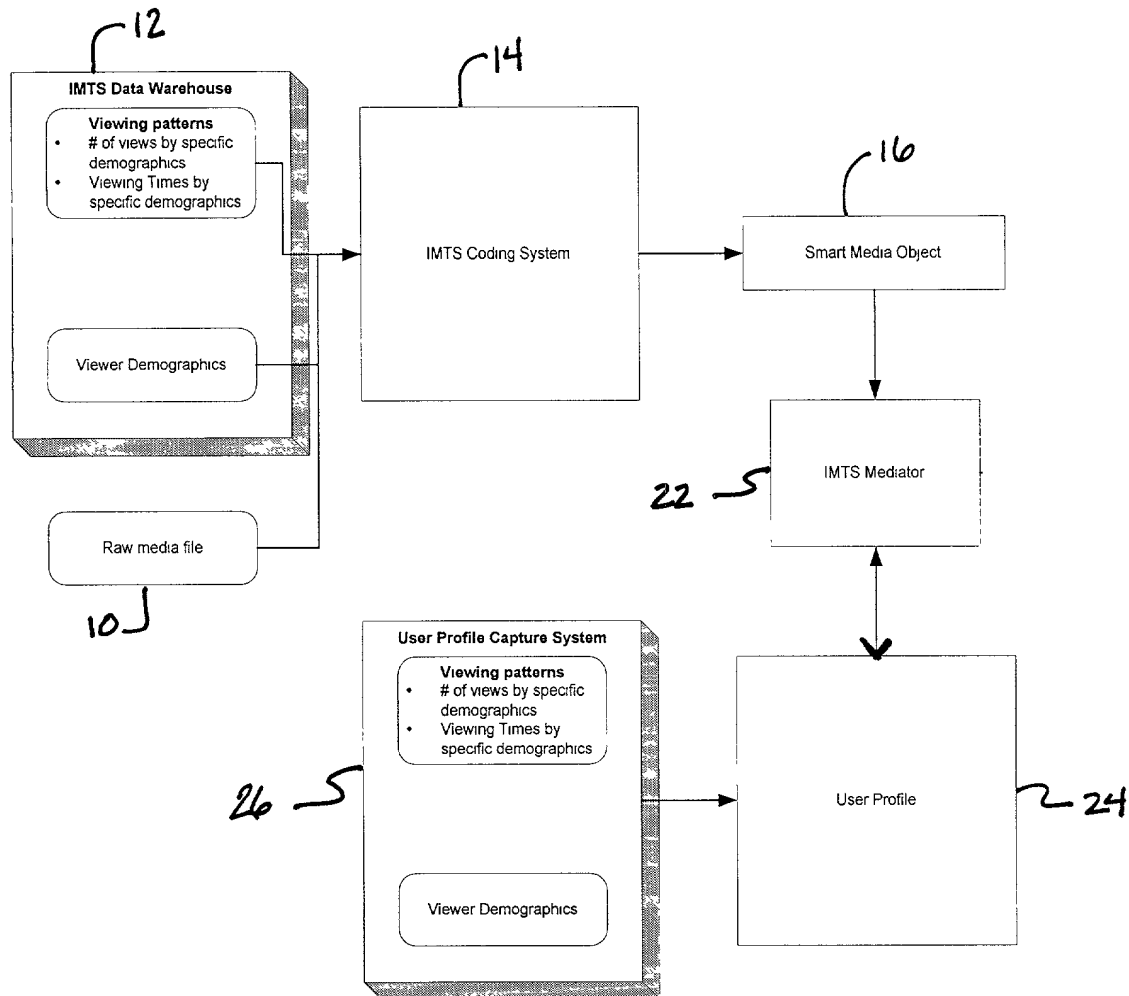


FIGURE 2

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graph TD; A[CAPTURE USER ACTIVITY INFORMATION] --> B[FILTER USER ACTIVITY INFORMATION TO GENERATE MEDIA OBJECT PROFILE]; B --> C[GENERATE CODED HEADERS FOR MEDIA OBJECTS]; C --> D[ATTACH CODED HEADERS TO MEDIA OBJECTS TO GENERATE SMART MEDIA OBJECTS]; D --> E[TRANSMIT SMART MEDIA OBJECTS]; E --> F[DETACH AND DECODE ATTACHED HEADER TO OBTAIN THE MEDIA OBJECT PROFILE]; F --> G[MAKE TARGETING DECISIONS BASED ON THE MEDIA OBJECT PROFILE];
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Flowchart illustrating the process for generating and using smart media objects:

- CAPTURE USER ACTIVITY INFORMATION
- FILTER USER ACTIVITY INFORMATION TO GENERATE MEDIA OBJECT PROFILE
- GENERATE CODED HEADERS FOR MEDIA OBJECTS
- ATTACH CODED HEADERS TO MEDIA OBJECTS TO GENERATE SMART MEDIA OBJECTS
- TRANSMIT SMART MEDIA OBJECTS
- DETACH AND DECODE ATTACHED HEADER TO OBTAIN THE MEDIA OBJECT PROFILE
- MAKE TARGETING DECISIONS BASED ON THE MEDIA OBJECT PROFILE

FIG. 3

**DECLARATION
and POWER OF ATTORNEY**

As a below named inventor, I declare that the information given herein is true, that I believe that I am the original, first and sole inventor (if only one name is listed as 1 below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

INTELLIGENT MEDIA TARGETING SYSTEM AND METHOD.

the specification of which is attached hereto unless the following box is checked

☐ was filed on ____ as United States Application Number or PCT International Application Number ____ and was amended on ____

My residence, post office address and citizenship are as stated below next to my name

I acknowledge my duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations § 1.56(a)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also

identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed

PRIOR FOREIGN APPLICATION(S)

COUNTRY	APPLICATION NUMBER	DATE OF FILING Month Day Year	PRIORITY CLAIMED UNDER 35 U S C 119
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I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application

(Application Serial No)

(Filing Date)

(Status)

POWER OF ATTORNEY. As a named inventor, I hereby appoint the following attorney(s) and/or Agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: Karlton C Butts, Reg. No. 39, 126 of Intertainer, Inc and to Martin & Ferraro, LLP, Thomas H Martin, Esq., Reg. No 34,383, Amedeo F. Ferraro, Esq., Reg. No. 37,129, and Todd M. Martin, Esq., Reg No 42,844

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I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon

SIGNATURE OF INVENTOR 1 	SIGNATURE OF INVENTOR 2
DATE 6/26/00	DATE
SIGNATURE OF INVENTOR 3	SIGNATURE OF INVENTOR 4
DATE	DATE